

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Claims 1-14 are **canceled**.

15. (Currently Amended) A method of reading an identification code from a mailpiece, comprising the steps of:

generating a signal in response to the mailpiece being placed in front of an infrared receiver at a reader head assembly;

sending the signal from the reader head assembly to a microprocessor in a reader unit over a signal cable;

illuminating a light source to scan an identification code from the mailpiece;

focusing the ~~scanned~~ identification code at a fiber bundle;

transmitting the ~~scanned~~ identification code via the fiber bundle to a light filter unit;

sending an output signal from the light filter unit to a signal converter that converts the output signal to a digital signal;

transmitting the digital signal from the signal converter to the microprocessor;

processing the digital signal at the microprocessor to obtain the identification code; and

outputting the identification code from the microprocessor to an output port.

16. (Currently Amended) The method of claim 15, wherein the signal from the reader head assembly is a light barrier signal.

17. (Original) The method of claim 15, wherein the output port is a synchronous serial port.

18. (Original) The method of claim 17, wherein the synchronous serial port uses transistor transistor logic.

19. (Original) The method of claim 17, wherein the synchronous serial port uses differential logic.

20. (Original) The method of claim 15, wherein the microprocessor is a reader logic unit.

21. (Original) The method of claim 15, wherein the signal converter is an A/D converter.

22. (Currently Amended) The method of claim 15, wherein the focusing step further comprises the substep of: focusing the ~~scanned~~ identification code through a lens.

23. (Original) The method of claim 15, further comprising the step of: displaying monitoring data on the reader head assembly.

24. (Original) The method of claim 23, further comprising the step of: displaying monitoring data on one or more light emitting diodes on the reader head assembly.

25. (Original) The method of claim 15, further comprising the step of: receiving instructions from an operator via a set of push buttons on the reader unit.

26. (Original) The method of claim 15, further comprising the step of: displaying monitoring data on one or more light emitting diodes on the reader unit.

27. (Original) The method of claim 15, further comprising the step of: receiving instructions from an operator via a set of push buttons on the reader head assembly.

28. (Original) The method of claim 15, wherein the light source is part of the reader head assembly.

29. (Original) The method of claim 15, wherein the light source is part of the reader unit.

30. (Original) The method of claim 15, wherein the microprocessor is a digital signal processor.

31. (Currently Amended) A system for reading an identification code from a mailpiece, comprising:

a generating component ~~configured~~ configured to generate a signal in response to the mailpiece being placed in front of an infrared receiver at a reader head assembly;

a response signal sending component ~~configured~~ configured to send the signal from the reader head assembly to a microprocessor in a reader unit over a signal cable;

an illuminating component ~~configured~~ configured to illuminate a light source to scan an identification code from the mailpiece;

a scanned identification code focusing component ~~configure~~ configured to focus the ~~scanned~~ identification code at a fiber bundle;

a scanned identification code transmitting component ~~configure~~ configured to transmit the ~~scanned~~ identification code via the fiber bundle to a light filter unit;

an output signal sending component ~~configure~~ configured to send an output signal from the light filter unit to a signal converter that converts the output signal to a digital signal;

a digital signal transmitting component ~~configure~~ configured to transmit the digital signal from the signal converter to the microprocessor;

a processing component ~~configure~~ configured to process the digital signal at the microprocessor to obtain the identification code; and

an outputting component ~~configure~~ configured to output the identification code from the microprocessor to an output port.

32. (Currently Amended) The system of claim 31, wherein the signal generated in response to the mailpiece being placed in front of the infrared receiver is a light barrier signal.

33. (Original) The system of claim 31, wherein the output port is a synchronous serial port.

34. (Original) The system of claim 33, wherein the synchronous serial port uses transistor transistor logic.

35. (Original) The system of claim 33, wherein the synchronous serial port uses differential logic.

36. (Original) The system of claim 31, wherein the microprocessor is a reader logic unit.

37. (Original) The system of claim 31, wherein the signal converter is an A/D converter.

38. (Currently Amended) The system of claim 31, wherein the scanned identification code focusing component further comprises:

a lens focusing component configured to focus the ~~scanned~~ identification code through a lens.

39. (Original) The system of claim 31, further comprising: a reader head assembly displaying component configured to display monitoring data on the reader head assembly.

40. (Original) The system of claim 39, further comprising: a light emitting diode displaying component configured to display monitoring date on one or more light emitting diodes on the reader head assembly.

41. (Original) The system of claim 31, further comprising: a reader head receiving component configured to receive instructions from an operator via a set of push buttons on the reader head assembly.

42. (Original) The system of claim 31, further comprising:
a reader unit displaying component configured to monitoring data on one or more light emitting diodes on the reader unit.

43. (Original) The system of claim 31, further comprising: a reader unit receiving component configured to receive instructions from an operator via a set of push buttons on the reader unit.

44. (Original) The system of claim 31, wherein the light source is part of the reader head assembly.

45. (Original) The system of claim 31, wherein the light source is part of the reader unit.

46. (Original) The system of claim 31, wherein the microprocessor is a digital signal processor.

47. (Currently Amended) A system for reading an identification code from a mailpiece, comprising:

means for generating a signal in response to the mailpiece being placed in front of an infrared receiver at a reader head assembly;

means for sending the signal from the reader head assembly to a microprocessor in a reader unit over a signal cable;

means for illuminating a light source to scan an identification code from the mailpiece;

means for focusing the ~~scanned~~ identification code at a fiber bundle;

means for transmitting the ~~scanned~~ identification code via the fiber bundle to a light filter unit;

means for sending an output signal from the light filter unit to a signal converter that converts the output signal to a digital signal;

means for transmitting the digital signal from the signal converter to the microprocessor;

means for processing the digital signal at the microprocessor to obtain the identification code; and

means for outputting the identification code from the microprocessor to an output port.

48. (Currently Amended) A computer usable medium having computer readable code embodied therein for reading an identification code from a mailpiece, the computer readable code comprising:

a generating module ~~configure~~ configured to generate a signal in response to the mailpiece being placed in front of an infrared receiver at a reader head assembly;

a response signal sending module ~~configure~~ configured to send the signal from the reader head assembly to a microprocessor in a reader unit over a signal cable;

an illuminating module ~~configure~~ configured to illuminate a light source to scan an identification code from the mailpiece;

a scanned identification code focusing module ~~configure~~ configured to focus the ~~scanned~~ identification code at a fiber bundle;

a scanned identification code transmitting module ~~configure~~ configured to transmit the ~~scanned~~ identification code via the fiber bundle to a light filter unit;

an output signal sending module ~~configure~~ configured to send an output signal from the light filter unit to a signal converter that converts the output signal to a digital signal;

a digital signal transmitting module ~~configure~~ configured to transmit the digital signal from the signal converter to the microprocessor;

a processing module ~~configure~~ configured to process the digital signal at the microprocessor to obtain the identification code; and

an outputting module ~~configure~~ configured to output the identification code from the microprocessor to an output port.

49. (Currently Amended) A method of reading an identification code from a mailpiece, wherein the identification code is printed in ~~flourescent~~ fluorescent ink, comprising the steps of:

generating a signal in response to the mailpiece being placed in front of an infrared receiver at a reader head assembly;

sending the signal from the reader head assembly to a microprocessor in a reader unit over an optical cable;

illuminating a light source to scan an identification code from the mailpiece;

focusing the ~~scanned~~ identification code at a fiber bundle including a plurality of bundle sections;

transmitting the ~~scanned~~ identification code via the fiber bundle to a set of photo sensors at a light filter unit, wherein the transmitting step further comprises the substeps of:

filtering a first fiber bundle section through a first light filter in a first photo sensor at the light filter unit;

filtering a second fiber bundle section through a second light filter in a second photo sensor at the light filter unit; and

filtering a third fiber bundle section through a third light filter in a third photo sensor at the light filter unit;

multiplexing an output signal from the set of photo sensors to a signal converter that converts the output signal to a digital signal;

transmitting the digital signal from the signal converter to the microprocessor;

processing the digital signal at the microprocessor to obtain the identification code; and

outputting the identification code from the microprocessor to an output port.

50. (Original) The method of claim 49, wherein the first light filter, the second light filter, and the third light filter each respond to a different light frequency.

51. (Currently Amended) The method of claim 49, wherein the signal generated in response to the mailpiece being placed in front of the infrared receiver is a light barrier signal.

52. (Original) The method of claim 49, wherein the output port is a synchronous serial port.

53. (Original) The method of claim 52, wherein the synchronous serial port uses transistor transistor logic.

54. (Original) The method of claim 52, wherein the synchronous serial port uses differential logic.

55. (Original) The method of claim 49, wherein the microprocessor is a reader logic unit.

56. (Original) The method of claim 49, wherein the converter is an A/D converter.

57. (Currently Amended) The method of claim 49, wherein the focusing step further comprises the substep of: focusing the ~~scanned~~ identification code through a lens.

58. (Original) The method of claim 49, further comprising the step of: displaying monitoring data on one or more light emitting diodes on the reader head assembly.

59. (Currently Amended) The method of claim 49, further comprising the step of: receiving instructions from an operator via a set of push buttons on the reader ~~unit~~ head.

60. (Original) The method of claim 49, further comprising the step of: displaying monitoring data on one or more light emitting diodes on the reader unit.

61. (Original) The method of claim 49, further comprising the step of: receiving instructions from an operator via a set of push buttons on the reader unit.

62. (Original) The method of claim 49, wherein the output port comprises a plurality of ports.

63. (Original) The method of claim 49, wherein the light source is part of the reader head assembly.

64. (Original) The method of claim 49, wherein the light source is part of the reader unit.

65. (Original) The method of claim 49, wherein the microprocessor is a digital signal processor.

66. (Currently Amended) A system for reading an identification code from a mailpiece, wherein the identification code is printed in ~~fluorescent~~ fluorescent ink, comprising:

- a generating component configured to generate a signal in response to the mailpiece being placed in front of an infrared receiver at a reader head assembly;

- a signal sending component configured to send the signal from the reader head assembly to a microprocessor in a reader unit over an optical cable;

- an illuminating component configured to illuminate a light source to scan an identification code from the mailpiece;

- a scanned identification code focusing component configured to focus the ~~scanned~~ identification code at a fiber bundle including a plurality of bundle sections;

- a scanned identification code transmitting component configured to transmit the ~~scanned~~ identification code via the fiber bundle to a set of photo sensors at a light filter unit, wherein the transmitting component further comprises:

 - a first filtering component configured to filter a first fiber bundle section through a first light filter in a first photo sensor at the light filter unit;

 - a second filtering component configured to filter a second fiber bundle section through a second light filter in a second photo sensor at the light filter unit; and

 - a third filtering component configured to filter a third fiber bundle section through a third light filter in a third photo sensor at the light filter unit;

 - a multiplexing component configured to multiplex an output signal from the set of photo sensors to a signal converter that converts the output signal to a digital signal;

 - a digital signal transmitting component configured to transmit the digital signal from the signal converter to the microprocessor;

 - a processing component configured to process the digital signal at the microprocessor to obtain the identification code; and

 - an outputting component configured to output the identification code from the microprocessor to an output port.

67. (Original) The system of claim 66, wherein the first light filter, the second light filter, and the third light filter each respond to a different light frequency.

68. (Currently Amended) The system of claim 66, wherein the signal generated in response to the mailpiece being placed in front of the infrared receiver is a light barrier signal.

69. (Original) The system of claim 66, wherein the output port is a synchronous serial port.

70. (Original) The system of claim 69, wherein the synchronous serial port uses transistor transistor logic.

71. (Original) The system of claim 69, wherein the synchronous serial port uses differential logic.

72. (Original) The system of claim 66, wherein the microprocessor is a reader logic unit.

73. (Original) The system of claim 66, wherein the converter is an A/D converter.

74. (Original) The system of claim 66, wherein the scanned identification code focusing component further comprises:

a lens focusing component configured to focus the ~~scanned~~ identification code through a lens.

75. (Original) The system of claim 66, further comprising: a reader head assembly displaying component configured to display monitoring data on one or more light emitting diodes on the reader head assembly.

76. (Original) The system of claim 66, further comprising: a reader head assembly receiving component configured to receive instructions from an operator via a set of push buttons on the reader head assembly.

77. (Original) The system of claim 66, further comprising: a reader unit displaying component configured to display monitoring data on one or more light emitting diodes on the reader unit.

78. (Original) The system of claim 66, further comprising:
a reader unit receiving component configured to receive instructions from an operator via a set of push buttons on the reader unit.

79. (Original) The system of claim 66, wherein the output port comprises a plurality of ports.

80. (Original) The system of claim 66, wherein the light source is part of the reader head assembly.

81. (Original) The system of claim 66, wherein the light source is part of the reader unit.

82. (Original) The system of claim 66, wherein the microprocessor is a digital signal processor.

83. (Currently Amended) A system for reading an identification code from a mailpiece, wherein the identification code is printed in ~~flourescent~~ fluorescent ink, comprising:

means for generating a signal in response to the mailpiece being placed in front of an infrared receiver at a reader head assembly;

means for sending the signal from the reader head assembly to a microprocessor in a reader unit over an optical cable;

means for illuminating a light source to scan an identification code from the mailpiece;

means for focusing the ~~scanned~~ identification code at a fiber bundle including a plurality of bundle sections;

means for transmitting the ~~scanned~~ identification code via the fiber bundle to a set of photo sensors at a light filter unit, wherein the transmitting component further comprises:

means for filtering a first fiber bundle section through a first light filter in a first photo sensor at the light filter unit;

means for filtering a second fiber bundle section through a second light filter in a second photo sensor at the light filter unit; and

means for filtering a third fiber bundle section through a third light filter in a third photo sensor at the light filter unit;

means for multiplexing an output signal from the set of photo sensors to a signal converter that converts the output signal to a digital signal;

means for digital signal transmitting the digital signal from the signal converter to the microprocessor;

means for processing the digital signal at the microprocessor to obtain the identification code; and

means for outputting the identification code from the microprocessor to an output port.

84. (Currently Amended) A computer usable medium having computer readable code embodied therein for reading an identification code from a mailpiece, wherein the identification code is printed in ~~fluorescent~~ fluorescent ink, the computer readable code comprising:

a generating module configured to generate a signal in response to the mailpiece being placed in front of an infrared receiver at a reader head assembly;

a signal sending module configured to send the signal from the reader head assembly to a microprocessor in a reader unit over an optical cable;

an illuminating module configured to illuminate a light source to scan an identification code from the mailpiece;

a scanned identification code focusing module configured to focus the ~~scanned~~ identification code at a fiber bundle including a plurality of bundle sections;

a scanned identification code transmitting module configured to transmit the ~~scanned~~ identification code via the fiber bundle to a set of photo sensors at a light filter unit, wherein the transmitting module further comprises:

a first filtering module configured to filter a first fiber bundle section through a first light filter in a first photo sensor at the light filter unit;

a second filtering module configured to filter a second fiber bundle section through a second light filter in a second photo sensor at the light filter unit; and

a third filtering module configured to filter a third fiber bundle section through a third light filter in a third photo sensor at the light filter unit;

a multiplexing module configured to multiplex an output signal from the set of photo sensors to a signal converter that converts the output signal to a digital signal;

a digital signal transmitting module configured to transmit the digital signal from the signal converter to the microprocessor;

a processing module configured to process the digital signal at the microprocessor to obtain the identification code; and

an outputting module configured to output the identification code from the microprocessor to an output port.

Claims 85-113 are **canceled**.